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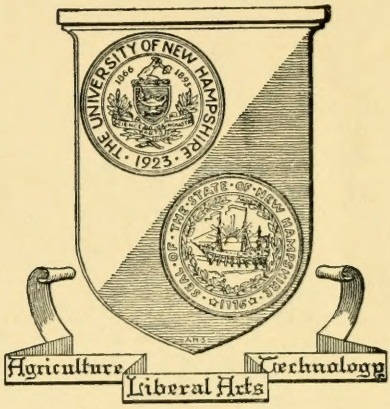

The University
of
New Hampshire

Bulletin 328 August, 1940

NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION
DEPARTMENT OF AGRONOMY

Results of Seed Tests for 1940

MADE FOR THE
STATE DEPARTMENT OF AGRICULTURE

By BESSIE G. SANBORN

THE UNIVERSITY OF NEW HAMPSHIRE
DURHAM, N. H.

RESULTS OF SEED TESTS

Made July 1, 1939, to June 30, 1940

This report contains the results of the inspection for the State Department of Agriculture of four hundred and eight official samples collected throughout the State during the period from July 1, 1939, to June 30, 1940. Each of these samples was analyzed and the results mailed to the retail dealers concerned. In addition to these official samples, two hundred and ninety-six private samples were analyzed, making a total of seven hundred and four samples inspected.*

Comparison of Seeds for Ten Years

	Number of Samples Tested	*Below in Purity*		*Below in Germination*	
		Number	*Per Cent*	*Number*	*Per Cent*
1931	385	36	9.3	68	17.6
1932	357	23	6.4	46	12.8
1933	384	30	7.8	37	9.6
1934	412	22	5.3	62	15.0
1935	391	28	7.1	74	18.9
1936	430	34	7.9	84	19.5
1937	439	31	7.0	70	15.9
1938	392	60	15.0	75	19.1
1939	426	32	7.5	100	23.5
1940	408	33	8.0	66	16.1

FREE TESTING OF SEEDS

Because of the increasingly large number of "private samples" sent to the laboratory for testing during recent years and because there are no specific funds or appro-

* Miss Ruth Davison and Miss Esther Jewell assisted with the purity and germination tests herein reported. For their services the writer wishes to express grateful acknowledgement.

priations available to finance this particular type of service, we are forced to put some limit on free testing for individuals and organizations.

For the present, we shall attempt to continue to do a small number of these samples through the use of N.Y.A. labor and otherwise, but the number of free tests for each individual or organization will have to be limited to six, and these seeds must be received in the laboratory during the months of *January or February.* This number of samples, not including mixtures, may be analyzed either for purity or for germination, or three samples for both purity and germination, free of charge. For numbers in excess of six, a charge will be made for labor and consumable supplies only, the cost depending on the type of sample. For example, oats or corn can be germinated in five or six days and a purity analysis can be made in half an hour, let us say. On the other hand, lawn grass mixtures usually contain seeds that require a month for germination and they may include six or eight species of grasses and legumes; obviously, a purity analysis is correspondingly tedious and time-consuming. With experience, we shall attempt to adjust the prices practically to the labor costs, without considering the overhead charges of heat, light, water and expensive laboratory equipment. Temporarily, for all tests in excess of six and for all tests of mixtures, a charge will be made as follows:

Germination tests of all crop seeds, including timothy grass, clovers and alfalfa, 25 cents each;

Germination tests of all grasses except timothy, 50 cents each;

Germination tests of mixtures, 25 cents for each kind of seed present;

Purity analyses of cereals, like corn and oats, 50 cents each; and of timothy grass, 75 cents each;

Purity analyses of all other kinds of crop seeds, except grasses, 75 cents each;

Purity analyses of the smaller grass seeds and of all mixtures of not more than two kinds of agricultural seeds, $1.00 each;

All purity analyses of special mixtures, including those for lawn and pasture seeding, a charge sufficient to cover the actual cost of working the sample submitted for test, minimum charge of $1.25.

On account of official work, which begins in earnest the first of March and taxes all our resources, private samples either for free testing or otherwise cannot be handled later than February.

Samples of seed to be tested should be drawn in such a way as to be representative of the bulk lot from which they are taken, and should be addressed to the State Seed Testing Laboratory, Durham, New Hampshire. Directions for sampling may be obtained from the laboratory on request. Fees must be paid before reports are sent out. A given seed company will be entitled to six private tests without charge, not six from each branch store. Such private tests cannot be declared as state official tests unless drawn by a representative of the department of agriculture, as provided in Chapter 182 of the Public Laws.

N. H. EXPERIMENT STATION
SEED INSPECTION, 1940

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested *	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
Ayers & Jenkins Co., Rochester	11631	Alsike Clover	1939	S	99	S	92
	11640	Oats, Swedish Type, 073101	1939	S	98	S	93
	11643	Red Clover, Ace, Medium, 24451	....	S	98.34	S	88
	11642	Red Top, Ace, Fancy, 41612	....	A	92	S	90
	11641	Timothy, Liberty, 6719	1940	S	99.60	S	90
Badger Farm Creameries, Greenland	11684	Alsike Clover, 55	1940	S	99.12	S	78
	11693	Millet, Hungarian, 70	1940	S	98	S	80
	11685	Millet, Japanese, 53	1940	A	98.73	S	95
	11686	Red Clover, 50, B.S.	1939	S	99.28	S	80
	11692	Red Top, 44, Gem	1939	S	90.60	S	90
	11683	Timothy, 62, Gem	1940	S	99.50	S	87

Berlin Grain Co., Berlin	11512	Millet, Hungarian, 38-148	1940	S	98	S	80
	11529	Red Clover, 6529, Domestic	1939	98.46	99.25	S	86
	11530	Timothy, 10-1236	1940	98.95	99.50	S	90
L. C. Berry, Lebanon	11761	Alsike Clover, Liberty, 5343	1940	S	98.55	S	77
	11760	Millet, Hungarian, J 6.2140	1940	A	98.98	S	81
	11759	Red Top, Honor, 2194	1940	S	94.60	S	91
	11758	Timothy & Alsike Mixture, 5399	1940	S	97.45	S	86
W. B. Brown, Ashland	11720	Millet, Japanese, 9125	1940	S	98.42	S	85
	11719	Red Clover, 5869, Pan American, Med.	1939	98.05	99.51	50	87
	11717	Timothy, Pan American	1939	S	99.70	S	90
	11718	Timothy, Pan American, 756	1940	S	99.61	S	90
Freeman Corson, Rochester	11635	Alsike Clover, Liberty, 7243	1939	S	97.50	S	82.50
	11646	Barley, Winter, 35-246	1939	S	98	S	92
	11644	Millet, Hungarian, 7434	1939	S	98.88	80	90

A = Above. S = Satisfactory. * As stated on tag accompanying seed.

SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
Freeman Corson, ... Rochester (continued)	11628	Millet, Japanese, ... 5092	1939	S	98.42	S	85
	11636	Red Clover, ... Med. Mich., 15-299	1940	98.54	99.25	S	88
	11629	Red Top, ... Fancy, 4881	1939	S	90.44	S	92
	11634	Timothy, ... Liberty, 7149	1939	S	99.70	S	90
	11645	Timothy, ... Arco, 10-209	1939	99.01	99.60	S	90
V. H. Cassidy, ... Londonderry	11671	Millet, Hungarian, ... 8341	1937	96.09	98.50	79	88
	11672	Red Clover, ... Ace, Medium, 24451	1940	S	98.34	S	88
Central Garage & Supply Co., ... Tilton	11703	Red Top, ... Pan American, 4338	....	S	95.30	S	92
	11704	Timothy, ... Imperator, 738	1940	S	99	S	90
Chase Grain Mill, ... Plymouth	11740	Alsike Clover, ... Liberty, 7248	1940	S	98	S	82
	11739	Millet, Hungarian, ... 5318	1940	S	99.18	S	88
	11743	Millet, Japanese, ... 1221	1940	S	98.32	S	87

Chase Grain Mill, ... Plymouth (continued)	11741	Red Clover, ... Liberty, Med., 7204	1940	S	99.25	86	95
	11742	Red Clover, ... Liberty, Med., 2427	1940	S	99	S	79
	11734	Soy Beans, ... Black Wilson, 2430	1940	S	99.22	S	90
	11735	Timothy, ... Liberty, 5401	1940	S	99.70	S	90
Checkerboard Feed Store, ... Dover	11656	Oats, ... 4, 44-46	1940	S	98.89	S	93
	11655	Timothy, ... Pan American, 757	1940	S	99.61	S	90
Checkerboard Feed Store, ... Lancaster	11798	Red Clover, 5941, ... Pan American, Med.	....	S	99.52	S	92
Checkerboard Feed Store, ... Lebanon	11819	Oats, ... 6, 44-46	1940	S	98.77	S	92
	11818	Red Clover, 5905, ... Pan American, Med.	1939	S	99.25	S	90
	11789	Red Top, ... Pan American, 4304	1939	S	92.20	S	90
Checkerboard Feed Store, ... Meredith	11708	Millet, Hungarian, ... 8356	1939	S	97.72	A	80
	11710	Oats, ... 2, 44-46	1940	S	98.69	S	92
	11709	Red Clover, 2430, ... Pine Tree, Medium	1939	S	99.32	S	84
	11707	Red Top, ... Fancy, 4317	1940	S	92.31	S	90

A = Above. S = Satisfactory. * As stated on tag accompanying seed.

SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
Checkerboard Feed Store, Nashua	11540	Millet, Hungarian, 9056	1938	S	98.50	72.5	90
	11532	Red Top, Ace, Fancy, 41588	1939	S	92.10	S	90
Cheshire County Grain Co., Keene	11886	Millet, Hungarian, 9089	1939	S	98.85	78.5	87
F. W. Clark, Wilton	11866	Millet, Hungarian, 8355	....	S	98.74	S	85
	11898	Millet, Japanese, 81193	1938	S	97.60	S	82
	11867	Red Clover, Ace, 24144	1939	S	98.52	S	83
Clark & Richardson, Lisbon	11752	Millet, Hungarian, 6	1940	S	99	76	90
	11754	Oats, Wirthmore, 5	1940	S	97.50	S	95
	11753	Timothy, Liberty, 6717	1940	S	99.80	S	95
Edgar T. Clement, Lisbon	11751	Red Clover, R-103, Special Medium	1940	S	97.26	S	84
	11750	Red Top, Fancy, 30-67	1939	S	92.75	S	93
Colebrook Feed Company, Colebrook	11804	Alfalfa, Glacier Grimm, 2286	1940	S	99.04	S	84

Colebrook Feed Company, ... Colebrook (continued)	11774	Alsike Clover, ... Pine Tree, 21-5133	1940	S	98.61	S	76
	11776	Alsike Clover, ... Pan American	1940	S	99.45	S	73
	11810	Barley ..... 38-6 Row, 2662	1940	S	99.66	S	94
	11821	Oats, ... Pennant, 03-140	1940	S	99	S	96
	11771	Red Clover, 24375, ... Pine Tree, Medium	1939	S	99.04	A	79
	11768	Red Top, ... Pan American, 4333	1940	A	92.80	S	92
	11796	Soy Beans, ... Black Wilson, 9585	1940	S	99.22	S	90
	11769	Timothy, ... Pine Tree, 66684	1939	S	99.60	S	94
	11770	Timothy, ... Pine Tree, 665 29	1939	S	99.60	78	90
Roy B. Cook, ... Winchester	11889	Red Clover, ... Medium, 9.2936	1936	98.87	99.50	54	92
G. G. Cummings, ... Bristol	11788	Red Top, ... Pine Tree, 41611	1939	S	95.40	S	92
	11812	Timothy, ... Pine Tree, 69331	1938	S	99.70	78.5	94
G. B. Currier Co., ... Colebrook	11806	Oats, ... O. & M., B-23	1940	S	99	S	93
	11815	Oats, ... Mammoth Cluster, 161-5	1940	S	99.79	S	95

A = Above. S = Satisfactory. * As stated on tag accompanying seed.

SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
G. B. Currier Co., Colebrook (continued)	11808	Peas, Canada Field, 40-55	1940	S	99.50	S	94
	11801	Red Clover, Medium, 15-305	1940	S	99.06	S	88
	11809	Red Clover, Ace, Medium, 24251	1939	S	98.42	S	82
	11775	Red Top, Ace, 041423	1939	S	92.90	S	90
	11797	Timothy, Arco, 10-227	1940	S	99.60	S	90
	11800	Timothy, Pine Tree, 66562	1939	S	99.70	74.5	90
	11820	Timothy, Arco, 10-238	1940	S	99.60	82.5	90
Delaware Feed Store, Claremont	11871	Oats, Delaware, M-5	1940	S	98.50	S	94
The Depot Store, Littleton	11778	Alsike Clover, Herald, 1572	1940	S	95.95	S	80
	11813	Red Clover, Herald	....	S	97	S	90
	11777	Red Top, Pan American, 4326	1940	A	93.77	S	94
	11803	Timothy, Herald, 738	1939	A	98	S	90

Dover Grain Co., ... Dover	11690	Millet, Hungarian, ... 7182	1939	S	99.08	72	90
S A. Dow & Son, ... North Hampton	11688	Lawn Grass, 347, ... Green Turf Mixture	1940	S	92	S	80
	11687	Red Clover, 3883, ... Pan American, Med.	1939	S	99.45	S	92
	11695	Red Top, ... Pan American, 4313	1939	S	92.13	S	90
	11694	Timothy, ... Pan American, 717	1939	S	99.60	71.5	90
W. E. Dunbar & Son, ... Manchester	11566	Red Clover, ... Acc. Medium, 24303	1939	S	98.02	S	81
	11565	Timothy, ... Pine Tree, 66482	1939	S	99.65	S	90
Eastern States Farmers' Exc., ... Dover	11697	Orchard Grass. 6581	1939	S	89	S	85
	11696	Rape, Dwarf Essex, ... 6481	1940	S	99.25	S	88
	11689	Vetch, Hairy, ... 281	1939	S	99	S	78
Eastern States Farmers' Exc., ... Manchester	11555	Alfalfa, ... Variegated, 947	1939	S	99.25	S	60
	11551	Alsike, Clover, ... 962	1939	S	99.10	S	70
	11554	Bluegrass, Kentucky, . 991	1940	S	88.50	S	75
	11552	Ladino Clover, ... 5121	1939	S	99.50	S	45

A = Above. S = Satisfactory.

* As stated on tag accompanying seed.

SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
Eastern Farmers' Exc., Manchester (continued)	11547	Millet, Hungarian. ... 978	1939	S	99	S	83
	11548	Millet, Japanese, ... 977	1939	S	98.50	S	85
	11559	Mixture, Hayland No. 1, 967	1939	S	99.18	S	78
	11560	Mixture, Hayland, No. 2, 968	1939	S	98.79	S	85
	11561	Mixture, Hayland No. 3, 972	1939	S	99.19	S	73
	11562	Mixture, Hayland No. 4, 973	1939	S	99.20	S	56
	11556	Mixture, Meadow Pasture, H, 979	1939	S	95.75	S	73
	11557	Mixture, Meadow Pasture, C, 981	1939	S	97.23	S	80
	11558	Mixture, Meadow Pasture, B, 794	1939	S	97.28	S	81
	11553	Red Clover, ... Medium, 958	1939	A	99.20	S	70
	11549	Red Top, ... Fancy Solid, 101	1939	S	96.50	S	93
	11550	Timothy, ... 944	1939	S	99.60	S	90

Eastern States Farmers' Exc., ... Woodsville	11824	Barley, ... Selected Spratt, 1271	1940	S	98	S	90
	11826	Red Clover, ... 996	1940	S	99.40	S	88
	11816	Soy Beans, ... Manchu, 1101	1940	S	99.25	S	80
Farm Service Co., ... Dover	11665	Oats, 101560, ... Alberta, Victory Strain	1940	S	97.50	S	95
	11651	Red Top, ... "Solar", 8115	1940	S	94.46	S	90
Farm Service Co., ... Keene	11849	Alfalfa, ... Blue Tag, Grimm, 2228	1939	S	99.70	S	80
	11845	Millet, Japanese, ... 41-11	1940	S	99.88	S	90
	11836	Oats, ... Victory, 101628	1940	S	97.50	S	95
	11837	Red Clover, 5860, ... Pan American, Med.	1939	S	99.40	S	85
	11830	Red Top, ... Pine Tree, 41673	1939	S	95.20	S	91
	11834	White Dutch Clover, .. Arco, 32-44	1940	S	98.25	S	80
Farm Service Co., ... Laconia	11723	Alfalfa, ... Blue Tag, Grimm, 28-250	1940	S	99.86	S	81
	11726	Alsike Clover, ... Pine Tree, 21554	1939	S	97.70	S	77
	11721	Millet, Hungarian, ... 9090	1939	S	98.77	72.5	85

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SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
Farm Service Co., Laconia (continued)	11724	Millet, Japanese, 81186	1936	97.09	98	75	85
	11725	Millet, Japanese, 9099	1939	S	97.68	S	90
	11722	Oats, 101340, Alberta, Victory	1940	S	97.50	S	95
	11727	Red Clover, 24307, Pine Tree, Medium	1939	A	99.24	S	81
Farm Service Co., Manchester	11617	Rye, Spring, 85-97	1940	S	99.50	75.5	87
	11623	Timothy, Pan American, 626	1938	99.28	99.70	74	95
	11624	Timothy, Pan American	1938	S	99.65	S	90
	11625	Timothy, Fancy, 5553	1940	S	99.60	S	90
Farm Service Co., Milford	11859	Oats, 101340, Alberta, Victory	1940	S	97.50	S	95
	11862	Peas, Canada Field, 40-51	1940	S	99	S	92
	11861	Timothy, 7266	1939	S	99.65	S	91
Farm Service Co., Nashua	11541	Alfalfa, 2228, Blue Tag, Grimm	1939	S	99.70	S	80

Farm Service Co., ... Nashua (continued)	11539	Alsike Clover, ... Fancy, 3936	1940	S	99.08	S	82
	11544	Barley, ... 6-row, 35-237	1940	S	98.10	S	98
	11536	Millet, Hungarian. .. 38-147	1940	S	99	S	83
	11535	Millet, Japanese, ... 81-11	1940	S	99.88	50	90
	11538	Red Clover, ... Fancy, Medium, 2586	1940	S	99.25	S	86
	11537	Red Top, ... "Solar", 8115	1940	S	94.46	S	90
	11545	Rye, Spring.	1939	S	98	S	90
	11543	Timothy, ... Pan American, 685	1939	S	99.60	S	90
	11546	Timothy, ... 7266	1940	S	99.65	S	91
Farm Service Co., .. Peterborough	11878	Millet, Japanese, .. Fancy, 9085	1938	S	98.47	S	90
	11881	Red Top, ... Pan American, 4301	1939	90.56	94.01	S	92
Farm Service Co., ... Portsmouth	11691	Alsike Clover, ... Pine Tree, 21554	1939	S	97.70	S	77
	11699	Red Top, ... Solar, J 3710	1940	S	94.46	S	90
	11698	Timothy, ... 7266	1939	S	99.65	S	91

A = Above. S = Satisfactory. As stated on tag accompanying seed.

SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
Farmers' Feed & Supply Co., ... Franklin	11729	Millet, Japanese, ... 38-157	1940	S	97.50	S	88
Farmers' Feed & Supply Co., ... Lancaster	11817	Barley, ... Wisconsin No. 38, 8259	1939	S	99.50	S	90
	11825	Timothy, ... Pan American	1939	S	99.60	53.5	90
Farmers' Feed & Supply Co., ... Manchester	11610	Alfalfa, ... Grimm, 28-238	1940	S	99.20	71	85
	11608	Millet, Hungarian, ... 8352	1938	S	98.56	S	80
	11616	Millet, Japanese, ... 38-144	1940	97.16	99.06	S	87
	11604	Oats, ...	1939	S	99.50	S	94
	11612	Red Clover, ... Medium, 15-290	1940	S	99.25	S	88
	11611	Red Top, ... 30-91	1940	S	95.65	S	90
	11609	Timothy, ... Arco, 10-229	1940	S	99.60	S	92
Farmers' Feed & Supply Co., ... North Haverhill	11779	Alsike Clover, ... 21354	1938	S	98.65	S	80
Farmers' Feed & Supply Co., ... Wilton	11887	Oats, ...	1939	S	99.50	S	90

Farmers' Grain Store, Ashland	11730	Oats, ... Wirthmore, 6	1940	S	96.05	86	95
	11731	Peas, Canada Field, .. 145	1938	S	99.50	S	90
Gardner & Hall Co., ... Concord	11598	Lawn Grass, ... Winner Mixed	1939	S	84.46	S	73
C. J. Goss, ... Lakeport	11701	Barley, ... Trebi, 6-row, 6161	1937	95.60	97.65	S	92
	11700	Millet, Japanese, ... 5107	1939	97.02	98.40	S	85
	11716	Red Clover, ... Medium, 2040	1939	97.68	99	S	83
	11702	Red Top, ... Fancy, 2557	1940	S	93.68	S	90
	11715	Timothy, ... Liberty, 5381	1940	S	99.65	S	90
Grafton County Feed Co., . North Haverhill	11802	Barley, ... Pennant, 1-240	1940	S	98	S	93
	11799	Red Clover, 5936 ..... Pan American, Med.	1940	S	99.14	S	80
	11805	Soy Beans, ... Manchu, 9584	1940	S	99	S	85
John H. Griffin, ... Newmarket	11895	Millet, Japanese, ... 53	1940	97.25	98.27	82	95
	11851	Red Clover, ... 50	1939	S	99.28	S	83
	11856	Timothy, ... Pine Tree, 66548	1939	S	99.70	S	99

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SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
John H. Griffin, Newmarket (continued)	11894	Timothy, 61	1940	S	99.50	S	87
Hennniker Feed Company, Henniker	11875	Millet, Hungarian, 38-146	1939	A	98.25	S	84
	11872	Oats, Pennant, 03-140	1940	S	99	S	96
	11873	Red Clover, 24375, Pine Tree, Medium	1939	S	99.04	S	79
	11874	Timothy, Pine Tree, 66684	1939	S	99.60	S	94
C. M. Hildreth & Son, Lebanon	11828	Red Clover, Pine Tree, 24144	1939	S	98.52	S	83
	11790	Red Top, Ace, 41720	1940	S	95.10	S	91
	11822	Timothy, Pine Tree, 66618	1939	S	99.70	S	90
Holbrook Grocery Co., Keene	11852	Millet, Hungarian, 8365	1939	A	93.20	S	87
	11843	Red Clover, N, 1988	1940	S	96.20	S	84
	11853	Red Clover, Special Med. R-103	1940	S	97.26	S	84
	11855	Red Clover, 10122, Monadnock, Medium	1940	S	99.36	S	87

Holbrook Grocery Co., ... Keene (continued)	11850	Red Top, ... XX, 041450	1939	S	90	S	90
Holbrook Grocery Co., ... Woodsville	11772	Alsike Clover, ... Imperator, 1572	1940	S	95.95	S	80
	11783	Barley, ... Wisconsin, 8348	1940	S	99.48	S	95
	11786	Millet, Japanese, ... 9118	1940	S	98.91	S	89
	11782	Oats, ... Victory, 8347	1940	S	99.50	S	90
	11784	Red Clover, 10122. ... Monadnock, Medium	1940	S	99.36	S	87
	11785	Red Clover, ... Special Med., R-103	1940	S	97.26	S	84
	11773	Red Top, ... XX, Fancy, 41744	1940	S	85.60	S	90
	11811	Rye, Spring, ... 8338	1940	S	97.80	81	91
	11787	Timothy. ..... White Mt., 66762	1940	S	99.70	82.5	92
	11791	Timothy. ..... Pan American, 761	1940	S	99.60	S	91
	11792	Timothy, ... Pine Tree, 66761	1940	S	99.70	72	92
	11829	Timothy, ... 5470	1940	S	99	S	90
E. C. & W. L. Hopkins, Inc., ... Greenfield	11863	Millet, Hungarian, ... 83-7	1940	S	98.14	S	87

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SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
E. C. & W. L. Hopkins, Inc., Greenfield (continued)	11883	Millet, Japanese, 81-9	1939	S	97.76	S	87
	11864	Red Clover, 24-5103, Pine Tree, Medium	1940	98.00	99.06	S	91
	11860	Red Top, Pine Tree, 41-420	1939	S	92	S	91
	11880	Timothy, Pine Tree, 66-56	1939	S	99.60	S	93
C. D. Jefferson, Rochester	11639	Red Top, 44	1939	S	90.60	S	90
	11638	Timothy, 61	1940	S	99.50	S	90
J. J. Jones & Son, Alton	11588	Red Clover, Imported	1937	S	99.22	78.5	90
	11584	Red Top, Fancy, 41537	1938	93.60	96.40	S	92
	11585	Timothy, K. & W.	1938	S	99.60	S	92
	11586	Timothy,	1937	S	99.60	S	92
	11587	Timothy, Bison, 69875	1937	A	98.10	75	90
Arthur J. Kashulines Co., Nashua	11542	Millet, Japanese, 81-1	1938	92.54	97.41	S	80

Arthur J. Lashulines Co., ... Nashua (continued)	11534	Red Clover, ... Medium, 162	1940	S	99.76	S	87
	11533	Timothy, ... 397	1940	S	99.71	S	83
Keegan & Co., ... Franklin	11705	Millet, Hungarian, ... 9089	1939	S	98.85	78.5	87
	11706	Timothy, ... Pan American, 623	1938	S	99.65	83	93
Littleton Feed Store, ... Littleton	11757	Alsike Clover, ... 25-168	1939	S	98.10	S	80
	11755	Millet, Hungarian, ... 51	1940	S	99.62	S	85
	11756	Timothy, ... 6371	1939	S	99.65	S	92
H. P. Maxfield, ... Pittsfield	11596	Alsike Clover, ... Pan American, 1577	1940	S	99.10	S	78
	11591	Millet, Hungarian, ... 83-58	1936	S	99.08	58	85
	11589	Millet, Japanese, ... 44-122	1936	S	99.08	6	88
	11595	Rape, Dwarf Essex ...	1931	S	99.62	22.5	85
	11593	Red Clover, ... Liberty, 5752	1936	S	99	71.5	86
	11590	Red Top, ... Pan American, 4334	1940	S	95.02	S	90
	11592	Red Top, ... Pan American, 4296	1938	93.53	95.86	S	90

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SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
H. P. Maxfield, ... Pittsfield (continued)	11594	Timothy, ... Liberty, 5681	1935	S	99.65	68	92
	11597	Timothy, ... Pan American, 756	1940	S	99.61	S	90
Meredith Grain Store, ... Meredith	11711	Millet, Hungarian, ... 9129	1940	98.19	99.46	S	85
	11712	Red Clover, ... Medium, 5901	1940	S	99.25	S	93
	11713	Red Clover, ... Medium, 'Imported	1940	S	99.22	S	81
	11714	Red Top, ... 4304	1940	A	92.20	S	90
Merrimack Farmers' Exc., Inc., .. Concord	11525	Alfalfa, ... Canad. Grimm, 27-71	1939	A	99	S	77
	11526	Alfalfa, 127330, ... Minn. grown Grimm	1940	S	99.56	S	69
	11494	Alsike Clover, ... 21652	1940	S	98	S	87
	11522	Alsike Clover, ... 21373	1939	S	99.05	S	80
	11524	Alsike Clover, ... 21556	1939	S	98.80	S	74
	11521	Barley, ... 6-row, 71265	1939	S	98.35	S	95

Merrimack Farmers' Exc., Inc., Concord (continued)	11531	Crimson Clover, ... 022174	1940	S	99.10	S	90
	11491	Lawn Seed, ... Merrimack	....	96.94	98.00	S	95
	11514	Millet, Hungarian, ... 8364	1939	S	98	S	85
	11528	Millet, Hungarian, ... 8371	1940	S	98.56	S	82
	11498	Millet, Japanese, ... 81203	1940	S	97.74	S	89
	11497	Peas, Canada Field, .. 85452	1939	S	99.50	S	86
	11493	Red Clover, ... Medium, 24476	1940	S	99	S	80
	11519	Red Clover, ... "Solar", Med. 515	1939	S	99.32	S	85
	11527	Red Clover, 24300, ... Med., Illinois grown	1939	S	99.22	S	82
	11515	Red Top, 41732, ... Illinois grown	1940	S	96	S	91
	11511	Soy Beans, ... Black Wilson, 084412	1939	S	99.50	S	92
	11518	Timothy, ... "Solar", 5879	1939	S	99.70	S	90
	11499	Vetch, Winter, ... 99198	1940	S	99.50	S	80
	11513	White Clover, ... 26257	1939	S	97.40	S	85

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SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
Merrimack Farmers' Exc., Inc., Concord (continued)	11520	White Clover, ... 026456	1940	S	97.74	S	80
Merrimack Farmers' Exc., Inc., Derry	11681	Alsike Clover, ... Pine Tree, 21680	1940	S	97.85	S	70
	11680	Barley, ... Fancy, 6-rowed	1939	S	96	S	92
	11682	Buckwheat, ... 745	1939	S	98	S	92
	11678	Oats, ... Extra heavy	....	S	95	S	95
	11677	Red Top, ... Pine Tree, 41760	1940	S	95.80	S	91
	11679	Rye, ... Rosen Type, 19133	1940	S	90.50	S	85
Merrimack Farmers' Exc., Inc., Peterborough	11865	Alfalfa, Grimm, ... 27376	1940	98.66	99.22	S	85
	11879	Alsike Clover, ... 3882	1940	S	99.52	S	80
	11858	Peas, Canada Field, ... 085343	1940	S	99.50	S	90
Merrimack Farmers' Exc., Inc., Pittsfield	11580	Soy Beans, ... Wilson, 19009	1939	S	98	64	80
	11579	Vetch, Winter, ... 99198	1940	S	99.50	70.5	80

J. J. Moreau & Son, ... Manchester	11573	Alsike Clover, ... Pan American, 1576	1940	S	98.44	S	88
	11578	Chewings Fescue, ... New Zealand, 2604	1939	S	98.21	11	85
	11571	Lawn Seed, X109, ... Special Shady Spot	1940	S	87	S	73
	11575	Millet, Hungarian 9129	1940	S	99.46	S	85
	11563	Millet, Japanese, ... 9096	1939	S	99.12	S	88
	11574	Oats, 8344, ... Swedish Select Type	1940	S	98	S	90
	11570	Red Clover, 5938, ... Pan American, Med.	1940	S	99.31	S	91
	11567	Red Top, ... Pine Tree, 41668	1939	S	95.80	S	90
	11569	Red Top, ... Fancy, 4334	1940	S	93.80	S	91
	11577	Rye, Spring	1939	S	98	77	90
	11572	Timothy, ... Pan American, 753	1940	S	99.60	S	90
	11568	Vetch, Spring, ... 9469	1940	S	99.82	S	94
	11564	Wheat, Spring, ... Marquis type, 8340	1940	S	99	S	96
	11576	White Clover	1939	97.32	98.25	S	90

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SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
Nelson Warner Company, ... Charlestown	11835	Oats, ... Swedish, Canada, 5327	1940	S	98.50	S	92
	11846	Red Top, ... Fancy, 2194	1940	S	94.60	S	91
	11854	Sweet Clover, ... White Blossom, 7238	1940	S	99.50	59.5	77
	11847	Timothy, ... Liberty, 5281	1940	S	99.70	S	90
F. W. Neal & Co., ... Dover	11653	Timothy, ... 5072	1937	S	99.60	S	92
	11654	Timothy, ...	1936	98.92	99.60	82	92
Pittsfield Feed & Grain Co., ... Pittsfield	11581	Alsike Clover, ... 25-229	1940	S	98.82	70.5	86
	11582	Red Clover, ... Medium, 15-299	1940	S	99.04	S	80
	11583	Timothy, ... Arco, 10-213	1940	S	99.60	S	90
W. N. Potter Grain Stores, Inc., .. Winchester	11893	Alsike Clover, ... Liberty, 7246	1940	S	98	S	83
	11897	Millet, Hungarian, ... 5337	1940	S	98.92	74	85
	11892	Millet, Japanese, ... 5479	1940	S	98.12	S	90

W. N. Potter Grain Stores, Inc., Winchester (continued)	11896	Oats, Wirthmore, 4	1940	S	98	S	95
	11891	Red Clover, Med. Liberty, 2410	1940	S	99	S	76
	11882	Red Top, Fancy, 2305	1940	S	92	S	90
	11890	Timothy, Liberty, 5289	1940	S	99.60	S	90
A. M. Rand Company, Plymouth	11733	Red Clover	1939	S	99.04	S	77
	11728	Red Top, 41-428	1940	S	92.30	S	94.60
	11732	Timothy, 7427	1939	S	99.65	S	90
Rochester Grain Company, Rochester	11637	Alsike Clover, Liberty, 5348	1940	S	98.50	S	78
	11633	Lawn Seed, 5001	1940	S	83.88	S	70
	11632	Millet, Hungarian, 5318	1940	S	99.18	S	88
	11626	Red Clover, Liberty, Med., 2533	1940	S	99	S	78
	11630	Sweet Clover, White Blossom, 7238	1940	S	99.50	57	77
	11627	Timothy, Liberty, 5401	1940	S	99.70	S	90
Rowell Brothers, Newport	11840	Alsike Clover, 149-1	1939	93.57	99	S	95

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SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Tested* Date	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
Rowell Brothers, Newport (continued)	11848	Millet, Hungarian, 51	1940	S	99.62	S	85
	11831	Millet, Japanese, 53	1940	S	98.73	S	95
	11838	Red Clover, Medium, 50	1939	S	99.28	S	83
	11839	Red Clover, B. S., Med., 170-1	1939	S	99.40	S	94
	11833	Red Top, 90-1	1939	87.61	91	S	90
	11841	Timothy	1939	S	99.60	87	94
S. A. Schurman & Son, Portsmouth	11667	Millet, Hungarian, 38-148	1940	S	98	S	80
	11666	Oats, Seed, Pennant, 05-240	1940	S	99	S	96
	11668	Red Clover, Medium, 15-290	1940	S	99	S	88
	11670	Red Top, 41740, Pine Tree, Fancy	1940	S	95.20	S	90
	11669	Timothy, Hisco, 10-236	1940	S	99.50	81.5	90
J. Herbert Seavey, Dover	11660	Alsike Clover, Liberty, 7285	1939	S	97.50	S	86

J. Herbert Seavey, ... Dover (continued)	11647	Barley, ... 6-row, 2325	1940	S	99.16	S	92
	11663	Millet, Hungarian, ... 2606	1940	S	98.02	S	90
	11664	Millet, Hungarian, ... 7182	1939	S	99.08	51.5	90
	11661	Millet, Japanese, ... 5447	1940	S	98	S	90
	11662	Millet, Japanese, ... 1223	1939	S	98.46	74.5	91.5
	11657	Peas, Canada Field, .. 4426	1939	S	98.50	S	95
	11658	Rape, ... 4461	1940	S	99.51	S	95
	11650	Red Clover, ... Liberty, Med., 2491	1940	S	99.04	A	78
	11659	Red Clover, ... Liberty, Med., 7288	1939	97.77	99.06	S	78
	11652	Red Top, ... Fancy, 2204	1940	S	93.84	S	90
	11648	Timothy, ... Liberty, 6628	1940	S	99.60	66	94
	11649	Timothy, ... Liberty, 5401	1940	S	99.70	S	90
F. B. Spaulding Co., ... Lancaster	11793	Barley, ... 35-1253	1940	S	98.50	S	90
	11794	Buckwheat, Japanese, . 65-82	1940	S	99.50	S	97

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SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
F. B. Spaulding Co., Lancaster (continued)	11795	Millet, Japanese, 38-140	1940	S	98	S	89
	11780	Red Top, 30-90	1940	S	92.15	S	90
	11814	Soy Beans, Black Wilson, 42-132	1940	S	99	S	90
	11823	Timothy, Arco, 10-238	1940	S	99.60	S	90
F. B. Spaulding Co., Whitefield	11807	Timothy, Pine Tree, 66565	1939	S	99.65	77.5	90
A. E. Stevens, North Stratford	11827	Timothy, Herald	1936	S	98	.71	90
C. P. Stevens Co., Franklin	11737	Millet, Japanese, 81-17	1937	97.46	98.42	S	85
	11736	Red Clover, Acc. 23-516	1936	S	98.38	60.5	94
	11744	Red Top, 41-410	1939	89.57	92.75	S	90
	11738	Timothy, 66x108	1938	S	99	43	90
C. P. Stevens Co., Plymouth	11747	Millet, Japanese, 81-1	1938	S	97.41	67.5	80
	11745	Red Clover, Imported, 2818	1938	S	99.50	S	90

C. P. Stevens Co., ... Plymouth (continued)	11746	Soy Beans, ... Black Wilson, 84-17	1937	S	99	54	95
Sugar River Grist Mill, ... Claremont	11832	Oats, ... Bulk, B-22	1940	S	99	S	93
Sullivan County Farmers' Exc., .. Claremont	11844	Alfalfa, Grimm, ... 851	1940	A	99.50	S	61
	11842	Oats, ... Selected, 951	1939	S	98	S	90
Sunshine Feed Store, ... Keene	11884	Alflafa, Grimm, ... 28-265	1940	S	99.16	60.5	83
	11781	Bluegrass, Kentucky, .. 34-69	1940	S	83.81	S	88
	11888	Oats, ... Anchor, 36-117	1940	S	98.10	S	90
	11885	Red Clover, 15-305, ... Anchor, Medium	1940	S	99.25	S	86
	11876	Red Top, ... 30-91	1940	S	95.65	S	90
Sunshine Feed Store, ... Manchester	11620	Alfalfa, Grimm, ... Wyoming, 28-253	1940	S	99.60	S	78
	11621	Alsike Clover, ... 25-74	1938	S	97.65	S	80
	11615	Millet, Hungarian, ... 38-148	1940	S	98.15	S	82
	11614	Oats, ... Anchor, 36-115	1940	S	98.10	S	94
	11613	Red Clover, ... Medium Idaho, 15-305	1940	S	99.25	S	86

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SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
Sunshine Feed Store, Manchester (continued)	11622	Red Top	1938	S	91.75	77	87
	11618	Rye, Winter, 85-95	1940	S	96.67	A	80
	11619	Timothy, Arco, 10-199	1940	S	99.60	79	90
Sunshine Feed Store, West Lebanon	11766	Millet, Hungarian, 38-122	1938	S	98.90	76	85
	11767	Red Clover, Mammoth, 20-70	1940	S	99	S	80
	11765	Red Top, 30-86	1939	S	94.47	80	90
	11764	Rye, Spring, 85-79	1940	S	98	76.5	89
	11762	Timothy, Arco, 10-217	1940	S	99.60	S	90
	11763	Timothy & Alsike Mix., 10-228	1940	S	98.15	S	88
Alex Szyman, Claremont	11877	Alsike Clover, Liberty, 7248	1939	S	97.75	S	84.50
	11870	Barley, 6-row, 5346	1940	S	99.63	S	93
	11869	Peas, Canada Field, 2226	1940	S	99	S	92

Alex Szyman, ... Claremont (continued)	11868	Timothy, ... Liberty, 4687	1939	S	99.70	S	92
Thompson & Hoague Co., ... Concord	11601	Alsike Clover, ... Ace, 21581	1939	S	96.30	18	70
	11607	Bluegrass, Kentucky, .. 32-146	1940	S	80.60	S	87
	11599	Chewing Fescue, ... 34-219	1939	S	99.47	73	89
	11602	Millet, Hungarian, ... 8366	1939	S	99.02	S	85
	11600	Peas, Canada Field ..	1938	S	99	47.5	88
	11603	Red Clover, ... Ace, Medium, 24293	1939	S	98.44	S	82
	11605	Red Top, ... Ace, Fancy, 41690	1939	S	92.50	S	92
	11606	Timothy, ... Pine Tree, 66674	1939	S	99.65	S	93
A. J. Turcotte, ... Newmarket	11857	Red Top, ... Ace, Fancy, 41612	....	89.01	92	S	90
John B. Varick Co., ... Manchester	11509	Alfalfa, Grimm, ... Pine Tree, 27302	1940	S	99.16	S	54
	11495	Alsike Clover, 215-48,.. Pine Tree, Ill. grown	1939	S	99.05	S	72
	11496	Alsike Clover, ... Pine Tree, 21629	1940	A	98.35	S	78
	11517	Barley, ... 6-row, 71271	1940	S	98.65	S	96

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SEED INSPECTION, 1940—Continued

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
John B. Varick, ... Manchester (continued)	11506	Bent, Astoria, ... Blue Tag, 034519	1940	S	99	S	85
	11492	Bluegrass, Kentucky, .. 032881	1940	76.64	85	S	84
	11503	Chewings Fescue, ... 034514	1940	S	98.50	S	82
	11502	Millet, Hungarian, ... 8365	1940	A	98.06	S	86
	11501	Millet, Japanese, ... 81203	1940	S	97.70	S	90
	11516	Oats, ... Swedish Type, 73224	1940	S	99	S	93
	11500	Red Clover, ... Ace, Medium, 24451	1940	S	98.34	S	88
	11507	Red Top, 41720, ... Pine Tree, Ill. grown	1940	92.37	95.10	S	91
	11508	Red Top, ... Ace, 41682	1940	S	92	S	91
	11510	Rye Grass, ... Domestic. 038166	1940	S	99.58	S	94
	11505	Soy Beans, 084439, ... Black, Indiana grown	1940	S	99	S	90
	11504	Timothy, 66727, ... Pine Tree, Ia. grown	1940	S	99.65	S	90

John B. Varick, ... Manchester (continued)	11523	White Clover, 26333, .. Idaho & Wis. grown	1940	S	96.60	S	82
H. D. Wood Co., ... Derry	11674	Alsike Clover, ... Arco, 25-229	1940	S	98.82	74.5	86
	11676	Oats, ... Over-all Recleaned	1939	S	96	S	95
	11673	Red Clover, ... 15-293, Med. Idaho	1940	S	99.50	S	85
	11675	Timothy, ... Pine Tree. 66697	1940	S	99.65	82	94
Woodsville Grain Co., ... Woodsville	11748	Millet, Hungarian, ... 38-146	1939	S	98.25	S	84
	11749	Millet, Japanese, ... 38-144	1939	97.78	98.50	S	86

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